

California Regional Water Quality Control Board  
San Francisco Bay Region

Order 88-011

Water Reclamation Requirements for:

Richardson Bay Sanitary District- Trestle Glen facility  
City of Tiburon  
Marin County

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter the Board), finds that:

1. The Richardson Bay Sanitary District (hereinafter called the District), submitted a Report of Waste Discharge to the Board on November 6, 1987.
2. The District formerly operated a secondary treatment plant along the Richardson Bay shoreline. This plant treated and disposed of the wastewater generated by residents of the City of Tiburon. On September, 1983, this plant ceased to discharge to Richardson Bay. The District's wastewater began to be treated by the Sewerage Agency of Southern Marin, whose treatment plant is located in Mill Valley.
3. On February 17, 1976, Order 76-17 was issued, which set wastewater reclamation requirements for the diversion of up to 50,000 GPD of the District's effluent for spray irrigation. Following the closure of the District's treatment plant, the District diverted dechlorinated effluent from a line leaving the SASM plant.
4. The SASM effluent is pumped through two shallow ponds, then run through a filter and is rechlorinated. The effluent can then be stored, pumped directly to a tank truck overhead feed, directly to the spray irrigation system, or recirculated back to the SASM plant.
5. The District irrigates an average of 39,000 GPD during the months of April through October. A total of 7.5 MG was sprayed last year. Irrigation typically took place 5-9 hours per day, during the evening hours.
6. The District irrigates two playing fields, McKegney Green and South Knoll, immediately southeast of the plant. The two fields are owned and managed by the City of Tiburon for recreational purposes.
7. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin on December 17, 1986. The Basin Plan prohibits the discharge of wastewater with particular characteristics of concern to beneficial uses to Richardson Bay (between Sausalito Point and Peninsula Point).

8. Section 13523 of the California Water Code provides that the Regional Board may, after consulting with and receiving the recommendation of the Department of Health Services and determining that such action is necessary to protect the public health, safety, and welfare, prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water.
9. The Department of Health Services has published regulations to establish acceptable levels of constituents in reclaimed water and to prescribe means for assuring reliability in the production of reclaimed water in order to assure that the use of reclaimed water for specified purposes does not impose undue risks to public health. The regulations are contained in Title 22 of the California Administrative Code and form the basis for these requirements.
10. Adoption of revised waste discharge requirements is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 2100 et. seq.) pursuant to Section 13389 of the California Water Code.
11. The discharger and interested persons have been notified of the Board's intent to reissue requirements for the existing discharge and have been provided with the opportunity to submit their comments.
12. The Board, at a properly-noticed public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder, that the Richardson Bay Sanitary District shall comply with the following:

A. Prohibitions

1. No reclaimed water shall be applied to the disposal area during the wet weather season (November 15 through April 15). Reclaimed water may be applied during the remainder of the year, except when the ground is saturated or during periods when rainfall or runoff from adjacent land can occur.
2. No waste shall be allowed to escape from the discharger's property into waters of the State via surface flow, airborne spray or resurfacing after percolation.

B. Reclaimed Water Use Restrictions

1. Reclaimed water shall not be injected into any fixed irrigation system connected to a domestic water supply.
2. Use of reclaimed water on areas not shown on the map which is attached to this order (Attachment A) is prohibited without written authorization from the Executive Officer.

C. Reclaimed Water Quality Specifications

1. The wastewater as discharged the spray irrigation area shall meet the following effluent quality limits at all times:

|                   |                  |
|-------------------|------------------|
| 5-day BOD         | 40 mg/l maximum  |
| Dissolved oxygen  | 1.0 mg/l minimum |
| Dissolved sulfide | 0.1 mg/l maximum |

|                    |   |
|--------------------|---|
| Coliform organisms | Median MPN shall not exceed 2.2 organisms per 100 ml at some point in the treatment system (median value to be obtained from last 7 samples). The MPN of a single sample shall not exceed 23 organisms per 100 ml, when verified by a repeat sample taken within 48 hours |
|--------------------|---|

2. The discharger shall discontinue use of reclaimed water during any period in which there is reason to believe that the limits specified in C.1 are not being met.

D. Provisions

1. This order supercedes Order 76-17, which is hereby rescinded.
2. The treatment, storage, or disposal or waste shall not create a nuisance, as defined in Section 13050(m) of the California Water Code

the California Water Code

3. The disposal of waste shall not cause degradation of groundwater suitable for domestic water supply or cause an increase in any quality parameter that would render groundwater unsuitable for irrigation use.
4. The wastewater disposal area and any equipment used to transport wastewater shall be clearly identified with warning signs to inform the public that wastewater is present, and that this water is unfit for human consumption.
5. Wastewater ponding which could provide a breeding area for mosquitoes shall be prevented.
6. If someone other than the discharger is responsible for the schedule for applying reclaimed water, then the discharger shall inform that person or persons of these requirements, in a written agreement or other suitable manner.
7. In accordance with Section 13267(c) of the California Water Code, the discharger shall permit the Board or its authorized representative:
  - a. Entry upon premises in which an effluent source is located or in which any required records are kept
  - b. Access to copy any records required to be kept under terms and conditions of this order
  - c. Inspection of monitoring equipment of records
  - d. Sampling of any discharge
8. The discharger shall comply with the self-monitoring program as adopted by this Board and as may be amended by the Executive Officer.
9. The discharger shall file with the Board a report of waste discharge at least 120 days before making any material change in the character, location, or volume of the discharge.
10. The Board will review this Order periodically and may revise the requirements when necessary.

I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on January 20, 1988



ROGER B. JAMES  
Executive Officer

Attachments:

Map & Self-Monitoring Program

LOCATION MAP  
RICHARDSON BAY SANITARY DISTRICT  
RECLAMATION FACILITY AND IRRIGATION



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM  
FOR

RICHARDSON BAY SANITARY DISTRICT AND

THE CITY OF TIBURON

MARIN COUNTY

ORDER NO. 88-011

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

I. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16. The principal purposes of a self-monitoring program are:

1. To document compliance with waste discharge requirements and prohibitions established by this Regional Board
2. To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge.

II. DESCRIPTION OF SAMPLING AND OBSERVATION STATIONS

A. EFFLUENT

| <u>Station</u> | <u>Description</u>   |
|----------------|--|
| E-001          | At any point in the outfall from the treatment facilities between the point of discharge and the point at which all waste tributary to that discharge is present (May be the same as E-001-D). |
| E-001-D        | At any point in the disinfection facilities for Waste E-001 at which point adequate contact with the disinfectant is assured.  |

B. LAND OBSERVATIONS

| <u>Station</u> | <u>Description</u>   |
|----------------|--|
| P              | Located around the periphery of the irrigation areas at equidistant intervals, not to exceed 500 feet. |

III. SCHEDULE FOR SAMPLING AND OBSERVATIONS

See attached table



#### IV. REPORTS TO BE FILED WITH THE BOARD

##### A. Violations of Requirements

In the event the discharger is unable to comply the conditions of the waste discharge requirements due to:

- maintenance work, power failures, or breakdown of waste treatment equipment
- bypassing of untreated or partially treated wastewater
- accidents caused by human error or negligence
- other causes such as acts of nature

The discharger shall notify the Board office by telephone (415-464-1255) as soon as he or his agents have knowledge of the incident and shall confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to prevent the problem from recurring.

##### B. Self-Monitoring Reports

Written reports shall be filed monthly. All reports are to be submitted by the fifteenth day of the following month. The reports shall include:

1. Letter of transmittal: A letter transmitting self-monitoring reports shall accompany each report. Such a letter shall include a discussion of requirement violations found during the past month and actions taken for correcting violations, such as plant operation modifications. The letter transmitting monitoring reports shall be signed by the District Superintendent or his duly authorized personnel.

The letter shall contain the following statement: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

2. Data: All results observed or analyzed per the requirements of section II, including dates and times of sampling and observations.
3. Map: A map shall accompany the report, showing the location of the treatment plant, storage pond, wastewater disposal area, and sampling and observation points.

I, Roger B. James, Executive Officer, hereby certify that the foregoing Self-Monitoring Program

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order no. 88-011.

2. Is effective on the date shown below.

3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.



Roger B. James  
Executive Officer

Effective Date: *JANUARY 22, 1988*

TABLE 1

| Sampling Station                                      | E-001 | E-001-D | L   |
|---|-------|---------|-----|
| TYPE OF SAMPLE  | Grab  | Grab    | Obs |
| Flow Rate (mgd)                                       | D     |         |     |
| BOD, 5-day, 20°C, or COD<br>(mg/l)                    | W     |         |     |
| Chlorine Residual & Dosage<br>(mg/l & lb/day)         |       | 5/W     |     |
| Settleable Matter<br>(ml/1-hr.)                       | W     |         |     |
| Total Suspended Matter<br>(mg/l)                      | W     |         |     |
| Oil and Grease<br>(mg/l & kg/day)                     |       |         |     |
| Coliform (Total)<br>(MPN/100 ml) per req't            |       | 5/W     |     |
| Fish Tox'y 96-hr. TL %<br>Surv'l in undiluted waste   |       |         |     |
| Ammonia Nitrogen<br>(mg/l & kg/day)                   |       |         |     |
| Nitrate Nitrogen<br>(mg/l & kg/day)                   |       |         |     |
| Nitrite Nitrogen<br>(mg/l & kg/day)                   |       |         |     |
| Total Organic Nitrogen<br>(mg/l & kg/day)             |       |         |     |
| Total Phosphate<br>(mg/l & kg/day)                    |       |         |     |
| Turbidity<br>(Jackson Turbidity Units)                |       |         |     |
| pH<br>(units)   | W     |         |     |
| Dissolved Oxygen<br>(mg/l and % Saturation)           |       |         |     |
| Temperature<br>(°C)                                   |       |         |     |
| Apparent Color<br>(color units)                       |       |         |     |
| Secchi Disc<br>(inches)                               |       |         |     |
| Sulfides (if DO<5.0 mg/l)<br>Total & Dissolved (mg/l) |       |         |     |
| Arsenic<br>(mg/l & kg/day)                            |       |         |     |
| Cadmium<br>(mg/l & kg/day)                            |       |         |     |
| Chromium, Total<br>(mg/l & kg/day)                    |       |         |     |
| Copper<br>(mg/l & kg/day)                             |       |         |     |
| Cyanide<br>(mg/l & kg/day)                            |       |         |     |
| Silver<br>(mg/l & kg/day)                             |       |         |     |
| Lead<br>(mg/l & kg/day)                               |       |         |     |

TABLE 1 (continued)

### SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

[illegible]

LEGEND FOR TABLE

## TYPES OF SAMPLES

G = grab sample  
C-24 = composite sample - 24-hour  
C-X = composite sample - X hours  
(used when discharge does not  
continue for 24-hour period)  
Cont = continuous sampling  
DI = depth-intergrated sample  
BS = bottom sediment sample  
O = observation

## TYPES OF STATIONS

I = intake and/or water supply stations  
A = treatment facility influent stations  
E = waste effluent stations  
C = receiving water stations  
P = treatment facilities perimeter stations  
L = basin and/or pond levee stations.  
B = bottom sediment stations  
G = groundwaters stations

### FREQUENCY OF SAMPLING

E = each occurrence  
H = once each hour  
D = once each day  
W = once each week  
M = once each month  
Y = once each year

2/H = twice per hour  
2/W = 2 days per week  
5/W = 5 days per week  
2/M = 2 days per month  
2/y = once in March and  
once in September  
Q = quarterly, once in  
March, June, Sept.  
and December

2H = every 2 hours  
2D = every 2 days  
2W = every 2 weeks  
3M = every 3 months  
Cont = continuous

NOTES TO TABLE 1

1. Sampling and observations will not be required on weeks when no reclaimed water is used.